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10/809,628	03/25/2004	Nagaraja Rao	2003P04328 US01	7484	
Elsa Keller	7590 12/08/2008 Elsa Keller			EXAMINER	
Siemens Corpor		OKORONKWO, CHINWENDU C			
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/809,628	RAO ET AL.			
		Examiner	Art Unit			
		CHINWENDU C. OKORONKWO	2436			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is is not firm any be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 22 Au	ugust 2008.				
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
3)□	·— · · · · · · · · · · · · · · · · · ·					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-5 and 7-15 is/are pending in the appear of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-5 and 7-15 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) _ accerning accerning and accerning and any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)[	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen						
2)  Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate			

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#### **DETAILED ACTION**

### Response to Amendment

1. In response to communications filed on 08/22/2008, the Examiner acknowledges the amendments made to the claims and have both considered and applied them to the claims.

1.1 <u>Claims 1-5 and 7-15</u> are pending examination.

## Response to Remarks/Arguments

- 2. Applicant's arguments with respect to the rejection of the claims have been fully considered but they are not persuasive.
- 2.1 In response to Applicant argument that neither Lumme nor Gosewehr reference does not teach or suggest sending a database of the switch to a vendor, nor do they teach or suggest enabling the vendor to upgrade the software while being prevented from decrypting data, in addition to the previous citation, the Examiner respectfully disagrees citing Gosewehr 1:61 2:43 which recites, "switching centers that may easily undergo on-line software upgrades" and 3:5-11 which recites, "installing an upgraded first call process server application on the first CAN, such that an upgraded first primary call process of the upgraded first call process server application executes on the first CAN and creates on the first CAN an upgraded first backup call process of the upgraded first call process server application" and 9:22-25 which recites, "an online software upgrade process." It would have been obvious for one of ordinary skill in the

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art to, at the time of the invention, to combine the interception system and method of <a href="Lumme et al."><u>Lumme et al.</u></a> with the system and method of maintenance of a switching node, the motivation and benefit being that there is a need for "switching node technology [to] constantly improve to [handle] escalated service demands (1:13-14 of <a href="Gosewehr">Gosewehr</a>)."

Additionally, without such a feature the "downtime can be costly for end-offices, in that determining the source of, and troubleshooting, the problem can take hours and even days (1:22-24)." Therefore it would have been obvious that "one solution currently adopted by switch manufacturers involves adding both hardware and software maintenance features to the switch to simplify the troubleshooting efforts of technicians (1:27-30)."

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1-5 and 7-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lumme et al. (US Patent No. 6,711,689 B2) in view of Gosewehr (U.S. Patent No. 7,308,491 B2)

Regarding <u>claims 1</u>, <u>Lumme et al.</u>, discloses a method for providing maintenance operations for a switch of a telecommunications service provider, while securing lawful intercept related data collected by the switch and stored in a database of the switch, comprising the steps of:

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encrypting a portion of the database including the intercept related data (4:65 – "secure data encryption") and storing the portion of the database that is encrypted in the database (5:15-16 – "stored interception database on a external command");

sending the database including the portion of the database that is encrypted to end or located outside the telecommunications service provider and the vendor preventing the vendor from decrypting the portion of the database including the intercept related data without authorization from the telecommunications (4:62-67 – "interception data collection means may be arranged to create a secure tunnel by a secure authentication, wherein the collected intercepted data is transferred via said tunnel using a secure data encryption" and 5:1-52 - "a secure authentication and tunneling may be performed by using VPN or SSH ... [and] the network element may be arranged to store entries for authenticated interception destinations which can set and reset the interception information."

Lumme et al. further recites, "transmitting collected intercepted data from the first network element to an interception browsing element, browsing the transmitted

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intercepted data at the interception browsing element based on an external command from a second network element having an interception activation and deactivation function ... the intercepted data may be received from the network element having the interception data collection function via a secure tunnel").

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Lumme et al. is silent in disclosing a switch within a switching center in which upgrading a portion of the database including upgradable control data for controlling the switch, which is within the switching center of the telecommunication service provider, by another entity outside the telecommunications service provider, however Gosewehr does disclose these features (1:61 – 2:43 – "switching centers that may easily undergo on-line software upgrades" and 3:5-11 – "installing an upgraded first call process server application on the first CAN, such that an upgraded first primary call process of the upgraded first call process server application executes on the first CAN and creates on the first CAN an upgraded first backup call process of the upgraded first call process server application" and 9:22-25 – "an online software upgrade process"). It would have been obvious for one of ordinary skill in the art to, at the time of the invention, to combine the interception system and method of Lumme et al. with the system and method of maintenance of a switching node, the motivation and benefit being that there is a need for "switching node technology [to] constantly improve to [handle] escalated service demands (1:13-14)."

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Additionally, without such a feature the "downtime can be costly for endoffices, in that determining the source of, and troubleshooting, the problem
can take hours and even days (1:22-24)." Therefore it would have been
obvious that "one solution currently adopted by switch manufacturers
involves adding both hardware and software maintenance features to the
switch to simplify the troubleshooting efforts of technicians (1:27-30)."

Regarding <u>claim 2</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of creating a logical key at the telecommunications company that allows the portion of the database including the intercept related data to be decrypted (8:47-67 and 9:52-56).

Regarding <u>claim 3</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of inserting the logical key into the portion of the database including the intercept related data to be encrypted (4:62-67 and 5:1-3).

Regarding <u>claim 4</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of creating the key creates a software key that is used for the encryption of the portion of the database including the intercept related data (10:66-67 and 11:1-39).

Regarding <u>claim 5</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of blocking access to display commands that cause the portion of the database including the intercept related data to be displayed by the switch (3:26-36).

Regarding <u>claim 7</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of upgrading by the vendor without providing access to the sensitive intercept related data (8:47-67 and 9:52-56).

Regarding <u>claim 8</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of storing programming code for controlling the switch in the portion of the database including the intercept related data (3:26-59).

Regarding <u>claim 9</u>, <u>Lumme et al.</u>, discloses the method according to claim 1, further comprising the step of providing protection for the intercept related data in accordance with a lawful intercept legislation (1:32-52).

Regarding <u>claim 10</u>, <u>Lumme et al.</u>, discloses the method according to claim 9, wherein the lawful intercept legislation is CALEA (1:32-52).

Regarding <u>claim 11</u>, the Examiner rejects these claims under the same rationale as claim 1.

Regarding <u>claim 12</u>, the Examiner rejects these claims under the same rationale as claim 1.

Regarding <u>claim 13</u>, the Examiner rejects these claims under the same rationale as claim 1.

Regarding <u>claim 14</u>, <u>Lumme et al.</u>, discloses the apparatus according to claim 11, further comprising a vendor switch (1:31-32).

Regarding <u>claim 15</u>, <u>Lumme et al.</u>, discloses the apparatus according to claim 14, wherein the vendor switch is programmed to prevent display of commands that cause the portion of the database including the intercept related data to be displayed (1:20-41).

#### Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHINWENDU C. OKORONKWO whose telephone number is (571)272-2662. The examiner can normally be reached on MWF 2:30 - 6:00, TR 9:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on (571) 272 4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. C. O./

/Carl Colin/ Primary Examiner, Art Unit 2436 12/5/2008

Examiner, Art Unit 2436

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